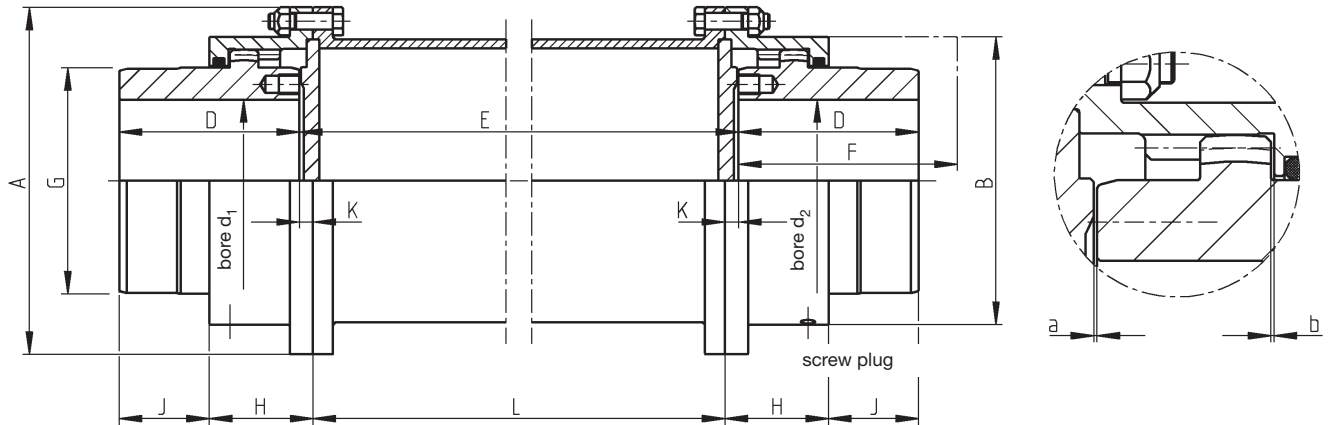


# Curved Tooth Couplings

## Construction Series LRLkn

Dimension Table No. 243 352



The construction series LRLkn is equipped with two crowned retaining plates for end float limitation. For these types, the permissible angular misalignment depends on the axial clearances a and b.

For coupling selection, please see page 6.

### Spacer length

$$L = E - 2 \times K$$

Other sizes available on request.

Torsional stiffness values, mass moments of inertia for couplings with spacer, and weight details are contained in the data table for LBk-type couplings.

The dismounting dimension F is required for replacing the O-rings.

1) The speed  $n_{max}$  depends on the length and weight of the spacer.

The maximum speed capacity is determined by the misalignment.

Please see table 'Speed Factors'.

2) The permissible angular misalignment  $\Delta K_{w perm.}$  is  $0.6^\circ$  per coupling half, based on the values stated in the list.

The axial clearances a and b can be varied if the operation conditions require so.

3) Values for the complete coupling without spacer, with bore  $d_1; d_2 max.$

Type LRLkn	Norm. Speed <sup>1)</sup> cont. duty $\frac{P_{KN}}{n}$ kW-min	$n_{max}$ rpm	Dimensions											Performance			
			bore $d_1; d_2$		A	B	D	F	G	H	J	K	Axial clearances <sup>2)</sup> a and b mm	Total grease <sup>3)</sup> quantity kg	Mass <sup>3)</sup> moment of inertia J kgm <sup>2</sup>	Weight <sup>3)</sup> kg	
32	0.050	8500	12	35	105	74	50	80	48	45.0	11.5	6.5	0.5	0.03	0.004	3.3	
38	0.082	7500	12	42	115	88	60	90	60	50.5	16.5	7	0.5	0.04	0.006	4.8	
48	0.146	6900	22	55	145	108	70	100	77	51.0	26.0	7	0.5	0.06	0.02	7.9	
60	0.288	6300	22	65	165	125	80	110	90	53.5	35.0	8.5	0.5	0.10	0.03	10.7	
70	0.50	5900	28	80	195	146	90	120	112	56.0	42.5	8.5	0.5	0.15	0.07	17.2	
80	0.82	5400	28	92	215	168	100	130	128	59.5	49.5	9	0.5	0.22	0.11	23.2	
90	1.14	5000	32	105	230	185	110	140	145	63.5	56.5	10	0.5	0.29	0.16	29.5	
100	1.64	4700	32	115	265	210	125	150	160	74.0	61.5	10.5	0.5	0.44	0.31	44	
110	2.30	4300	55	126	270	224	140	170	176	80.5	70.0	10.5	1.0	0.55	0.40	53	
125	2.88	4000	65	145	305	245	150	180	200	87.5	75.0	12.5	1.0	0.79	0.69	72	
140	4.60	3700	75	162	330	270	170	200	224	98.5	85.0	14	1.0	0.90	1.13	95	
160	6.48	3400	85	185	375	305	190	230	256	110.5	94.0	15	1.0	1.23	1.68	110	
180	9.24	3100	120	210	425	348	220	260	288	125.0	112.0	17	1.0	1.90	3.93	201	
200	12.92	2900	140	230	470	392	250	300	320	136.0	132.0	18	1.0	2.40	6.70	278	
225	18.4	2700	160	260	535	437	280	330	362	157.5	142.0	19.5	1.0	3.70	12.2	392	

Subject to change due to technical improvement.